

Cell Cycle PreLab

1. Interphase Events

- Onions have 16 molecules of DNA (chromosomes), 8 from one parent and 8 from the other parent. **After the 'S' Phase**, how many molecules of DNA are in the cell? _____

- During Interphase, what other things happen?

2. Prophase/Prometaphase Events

- What happens to the nucleus? _____

- What structure forms? _____

3. Metaphase Events

- Where are the chromosomes during metaphase?

- What attaches to the chromosomes during metaphase?

4. Anaphase Events

- What happens to the chromosomes during anaphase?

- What is moving the chromosomes? _____

5. Telophase Events

- Where are the chromosomes during telophase?

- What is forming around the chromosomes? _____

- What happens to the cell? _____

6. Cytokinesis Events

a. Plant

b. Animal

- What divides the cell of the animal?

- What divides the cell of the plant?

After an onion cell has divided, how many molecules of DNA will be in each new cell? _____

Make your cell division phase drawings here...

Interphase		Anaphase	
Prophase		Telophase	
Prometaphase		Cytokinesis (animal)	
Metaphase		Cytokinesis (plant)	